

AppleScript Studio Introduction

Session 902





AppleScript Studio Introduction

Tim Bumgarner AppleScript Studio Engineer

Agenda

- Introduction
- Building a Studio Application
- Enhancing a Cocoa Application
- Using other languages
- Future features
- •Q&A

Introduction

- What is AppleScript Studio?
- What can you do with Studio?

What Is AppleScript Studio?

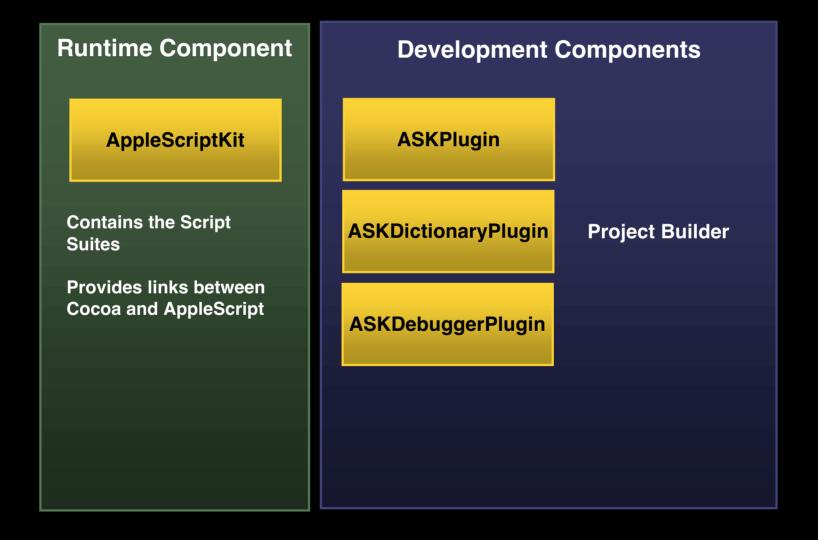
• It is a combination of:

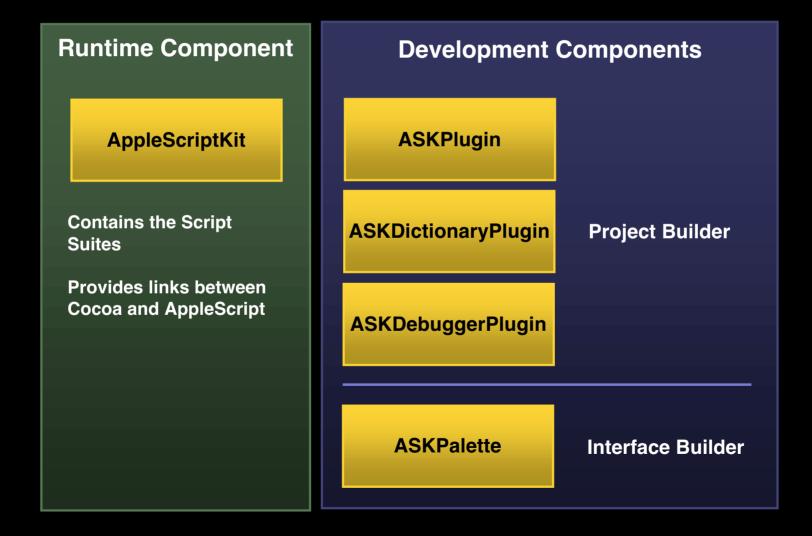
- The AppleScript language
- Project Builder
- Interface Builder
- The Cocoa application frameworks
- It is a development tool for building native Mac OS X applications
- It is a runtime system for running Studio applications

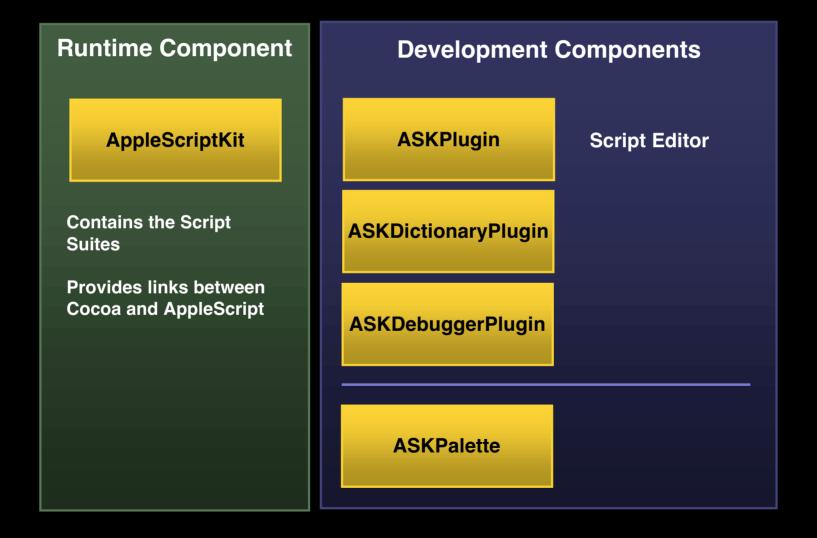
Runtime Component	Development Components	

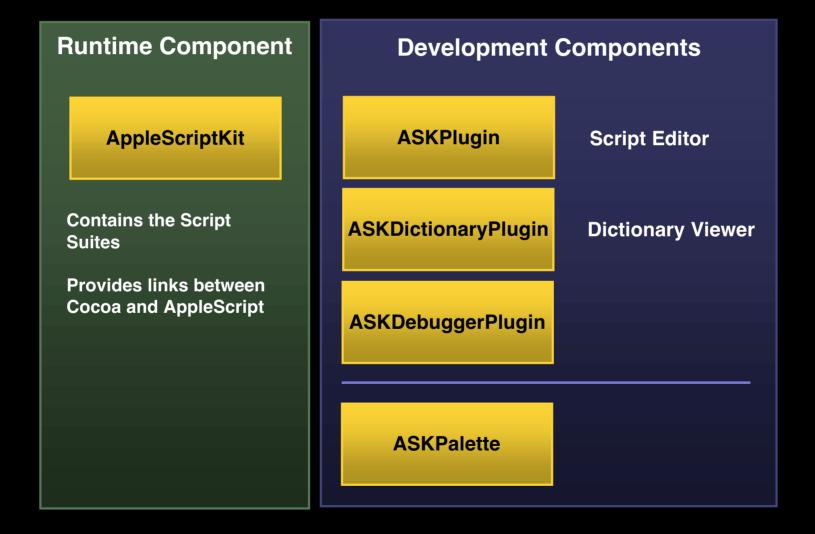
Runtime Component	Development Components	
AppleScriptKit		

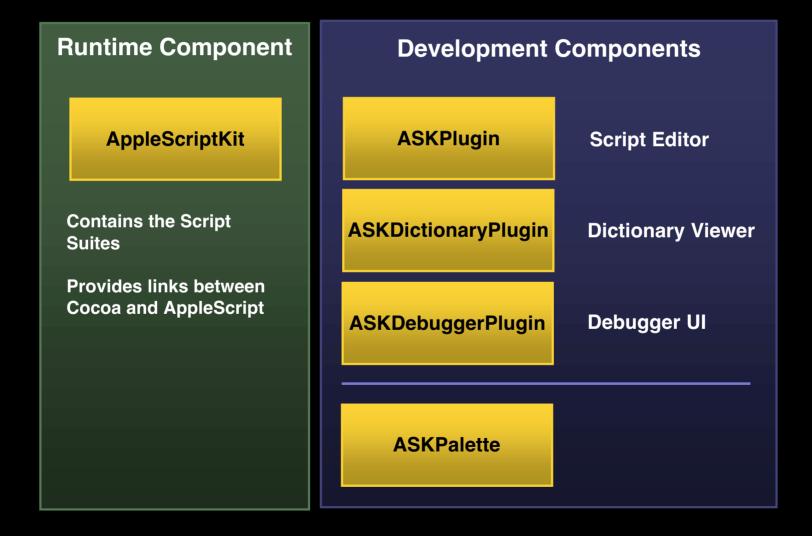
Runtime Component Development Components AppleScriptKit Contains the Script Suites Provides links between Cocoa and AppleScript











Runtime Component	Development Components	
AppleScriptKit	ASKPlugin	Script Editor
Contains the Script Suites	ASKDictionaryPlugin	Dictionary Viewer
Provides links between Cocoa and AppleScript	ASKDebuggerPlugin	Debugger UI
	ASKPalette	AppleScript Panel

What Can You Do With Studio?

What Can You Do With Studio?

- Create Native Mac OS X Applications
- Take advantage of Cocoa's rich user interface
- Control other scriptable applications, both locally or across the network
- Use Web services

What Can You Do With Studio?

- Talk to the shell using 'do shell script'
- Leverage code from other development languages, such as C, C++, Objective-C, Objective-C++ and even Java

Building a Studio Application

- Create a Currency Converter
- Enhance it with some SOAP



John Coelho AppleScript QA Manager

Enhancing a Cocoa Application

- Start with the Sketch example
- Add the AppleScriptKit Framework
- Add an AppleScript Build Phase
- Add a "Change Color" Panel



John Coelho AppleScript QA Manager

Using Other Languages

- You can call functions/methods in the following languages:
 - C, C++, Objective-C, Objective-C++ and Java (directly and through the Java Bridge)
- The 'call method' command is the key

- Two major forms
 - call method "method_name"
 [of object(some_object)]
 [with parameter/parameters]
 - call method "class method_name" [of class "some_class"] [with parameter/parameters]

- Two major forms
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 [with parameter/parameters]
 - call method "class method_name" [of class "some_class"] [with parameter/parameters]

- Two major forms
 - call method "method_name"
 [of object(some_object)]
 [with parameter/parameters]
 - call method "class method _name"
 [of class "some_class"]
 [with parameter/parameters]

• Examples of object methods

call method "title" of object button 1

call method "setTitle:" of object button 1 with parameter "Testing"

• Examples of object methods

call method "title" of object button 1

call method "setTitle:" of object button 1 with parameter "Testing"

• Examples of object methods

call method "title" of object button 1

call method "setTitle:" of object button 1 with parameter "Testing"

• Examples of object methods

call method "title" of object button 1

call method "setTitle:" of object button 1 with parameter "Testing"

• Examples of class methods

call method "string" of class "NSString"

call method "stringWithString:" of class "NSString" with parameter "Testing"

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Jaguar Features

- Document-based applications
- Drag-and-Drop support
- Pasteboard support
- Data source improvements

Future Features

- New "script" Property
- Improved Dictionary Viewer
- Object Hierarchy Viewer
- Improved Web Services Integration
- Other OSA Languages

Documentation

AppleScript Studio

- Building Applications With AppleScript Studio
 - Overview
 - Concepts
 - Programming tips
 - Tutorials
- AppleScript Studio Terminology Reference
 - Complete terminology, by suite
 - Links between classes, commands, properties, elements and constants
 - PDF only; many descriptions forthcoming

Documentation

More AppleScript Documentation

- AppleScript Scripting Language
- Apple Event Manager
- AppleScript Studio (Jaguar)
- Building Applications With AppleScript Studio
 - Minor additions and corrections
- AppleScript Studio Terminology Reference
 - Includes terminology for AppleScript Studio 1.2
 - Many more descriptions and examples
 - Available in HTML

Documentation > Mac OS X > Core Technologies > AppleScript http://developer.apple.com/techpubs/macosx/CoreTechnologies/coretechnologies.html

Roadmap

106 AppleScript Update	Room C Wed., 9:00am
FF007 AppleScript	Room J1 Thurs., 3:30pm
303 Cocoa Scripting	Room A2 Thurs., 10:30am
903 Exploring the Project Builder IDE	Hall 2 Wed., 5:00pm



Who to Contact

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http://developer.apple.com/wwdc2002/urls.html

For More Information

- AppleScript Studio web site http://www.apple.com/applescript/macosx/ascript_studio/
- AppleScript Studio mailing list http://lists.apple.com
- AppleScript Studio examples /developer/examples/AppleScript Studio





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